[SEQUENCE LISTING]

<110> PYUN, YU RYANG <120> Thermostable L-Arabinose Isomerase and Process for Preparing Dtagatose thereby <130> DP01202 <160> 4 <170> KopatentIn 1.6 <210> 1 <211> 21 <212> DNA <213> Artificial Sequence <220> <223> primer araAP ' <400> 1 21 atgatagato toaagcagta c <210> 2 <211> 20 <212> DNA <213> Artificial Sequence <220> <223> primer araAR <400> 2 tcatcttttc aaaagccccc <210> 3

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105 110

95

90

His Thr Phe Ser Pro Ser Lys Met Trp Ile Arc Gly Leu Ser Ile Asn

Lys Lye Pro Leu Leu His Leu His Thr Gln Tyr Asn Arg Glu Ile Pro

85

Trp Asp Thr Ile Asp Met Asp Tyr Met Asn Leu Asn Gln Ser Ala His Gly Asp Arg Glu His Gly Phe Ile His Ala Arg Met Arg Leu Pro Arg Lys Val Val Val Gly His Trp Glu Asp Arg Glu Val Arg Glu Lye Ile Ala Lys Trp Met Arg Val Ala Cys Ala Ile Gln Asp Gly Arg Thr Gly Gln Ile Val Arg Phe Gly Asp Asn Met Arg Glu Val Ala Ser Thr Glu Asp Asp Lys Val Glu Ala Gln Ile Lys Leu Gly Trp Ser Ile Asn Thr Trp Gly Val Gly Glu Leu Ala Glu Gly Val Lys Ala Val Pro Glu Asn Glu Val Glu Glu Leu Leu Lys Glu Tyr Lys Glu Arg Tyr Ile Met Pro Glu Asp Glu Tyr Ser Leu Lys Ala Ile Arg Glu Gln Ala Lys Met Glu Ile Ala Leu Arg Glu Phe Leu Lys Glu Lys Asr Ala Ile Ala Phe Thr Thr Thr Phe Glu Asp Leu His Asp Leu Pro Glr Leu Pro Gly Leu Ala Val Gln Arg Leu Met Glu Glu Gly Tyr Gly Phe Gly Ala Glu Gly Asp

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Pro	Gly	Asn	Glu	Leu	Val	Leu	Gly	Ala	His	Met	Leu	Glu	Val	¢Уs	Pro
			340					345					350		
Thr	Ile	Ala	Lув	Glu	Lys	Pro	Arg	Ile	Glu	Val	Hie	Pro	Leu	Ser	Ile
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Gly	Gly	Lys	Ala	Asp	Pro	Ala	Arģ	ŗел	Val	Phe	Asp	Gly	Gln	Glu	Glγ
	370					375					380				
Pro	Ala	Val	Asn	Ala	Ser	Ile	Val	Asp	Met	Gly	Asn	Arg	Phe	Arg	Leu
3,85					390					395	i				400
Val	Val	Asn	Arg	Val	Leu	Ser	Val	Pro	Ile	Glu	Arg	Lys	Met	Pro	Lув
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Leu	Pro	Thr	Ala	Arg	Val	Leu	Trp	Lys	Pro	Leu	Pro	Asp	Phe	Lys	Arg
			420					425					430)	•
Ala	Thr	Thr	Ala	Trp	Ile	Leu	Ala	Gly	Gly	Ser	His	His	Thr	Ala	Phe
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Ser	Thr	Ala	Val	Asp	Val	Glu	Tyr	Leu	Ile	Aap	Trp	Ala	Glu	Ala	Leu
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•				T	37 1		7.00	ć1.,	Nan	T 011			C1.,	Asn	Dhe
GIII	TTE	GIU	TYI	Leu	AST	TIE	Asp	GIU	ASII	Leu	мър	nea		MSII	FIIC
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Lys	Гув	Glu	Гéл	Arg	Trp	Asn	Glu	Leu	Тут	Trp	Gly	Leu	Leu	ГÀв	Arg
				4 D E					400					495	